

GenCore version 5.1.4-p5\_4578  
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OM protein - protein search, using SW model

Run on:

March 20, 2003, 08:20:06 ; search time 0.001 Seconds

(without alignments)  
 858.346 Million cell updates/sec

Title: us-09-488-265-26

Perfect score: 2470  
 Sequence: 1 MGVFVVLISIATLFGSTSGT.....DFVEGLSFARSGGNWEECFA 467

Scoring table: BIOSM62  
 GapOp 10.0 , Gapext 0.5

Searched: 4 secs, 1838 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%

Listing first 45 summaries

Database : ramirez126.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2470	(100.0)	1	US-09-343-126C-129	Sequence 129, APP
2	2448	99.1	467	1 US-09-343-126C-134	Sequence 134, APP
3	2342	94.8	467	1 US-09-343-126C-132	Sequence 132, APP
4	2115	85.6	437	1 US-09-343-126C-130	Sequence 130, APP

### ALIGNMENTS

RESULT 1

US-09-343-126C-129

; Sequence 129, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wiss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C384357/09741

; CURRENT APPLICATION NUMBER: US/09/343,126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 134

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

US-09-343-126C-134

; Sequence 134, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wiss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C384357/09741

; CURRENT APPLICATION NUMBER: US/09/343,126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 134

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

RESULT 2

US-09-343-126C-134

; Sequence 134, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wiss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C384357/09741

; CURRENT APPLICATION NUMBER: US/09/343,126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 134

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

Query Match 99.1%; Score 2448; DB 1; Length 467;

Best Local Similarity 98.9%; Pred. No. 0; Mismatches 2; Missmatches 3; Indels 0; Gaps 0;

Matches 462; Conservative 98.9%; Pred. No. 0; Mismatches 2; Missmatches 3; Indels 0; Gaps 0;

Db 1 MGVFVVLISIATLFGSTSGT.....DFVEGLSFARSGGNWEECFA 467

QY 1 MGCFVVLISIATLFGSTSGT.....DFVEGLSFARSGGNWEECFA 467

Db 61 SAISPDVVKCGCRVTFVQVLSRHRGARYPSSKSKKYSALIEALKNATEFKGKAFLKYN 120

QY 61 SAISPDVVKCGCRVTFVQVLSRHRGARYPSSKSKKYSALIEALKNATEFKGKAFLKYN 120

Db 241 ARLEAHLPGVNLTDEDVNVNLMDCPFDVTARTSDATOLSPFCDFLTHDEWIQYIQLQSLG 300  
 ; Sequence 130, Application US/09343126C  
 ; GENERAL INFORMATION:  
 Qy 301 KYGGAGGNPLGAQCGVFNELLARLTHSPQDHTSTHLDSPNATPLNATLYADES 360  
 ; APPLICANT: Brugger, Roland  
 Db 301 KYGGAGGNPLGAQCGVFNELLARLTHSPQDHTSTHLDSPNATPLNATLYADES 360  
 ; APPLICANT: Lehmann, Martin  
 ; APPLICANT: Wiss, Markus  
 ; TITLE OF INVENTION: Phytase Formulations  
 ; FILE REFERENCE: C38435/109741  
 ; CURRENT APPLICATION NUMBER: US/09343126C  
 Qy 361 HDMTMSIFFALGLYNGTKPLSTSIEETDGYASWTVPAARAYEMOCAEK 420  
 ; CURRENT FILING DATE: 1999-06-29  
 Db 361 HDMTMSIFFALGLYNGTKPLSTSIEETDGYASWTVPAARAYEMOCAEK 420  
 ; NUMBER OF SEQ ID NOS: 139  
 ; SOFTWARE: PatentIn version 3.1  
 Qy 421 LVRVLVNDRVPLHGCCVDKLGRCKRDRDFVEGLSFARSGGNWECFA 467  
 ; SEQ ID NO: 130  
 ; LENGTH: 437  
 ; TYPE: PRT  
 ; ORGANISM: Consensus sequence  
 ; US-09-343-126C-130  
 Query Match 94.8%; Score 242; DB 1; Length 467;  
 Best Local Similarity 94.8%; Pred. No: 0; Mismatches 16; Indels 0; Gaps 0;  
 Matches 441; Conservative 10; Mismatches 16; Indels 0; Gaps 0;  
 Qy 1 MGVFVVLSTATLGSTSGTALGRGRGNSHSCDVDDGGYQCPPELISHWQGQSPFESLADE 60  
 Db 1 MGVFVVLSTATLGSTSGTALGRGRGNSHSCDVDDGGYQCPPELISHWQGQSPFESLADE 60  
 Qy 61 SATISDPVKRCRVEQVLSRRHGRYPSSKKSYALIAEKNAFKYAFKTYIN 120  
 Db 61 SATISDPVKRCRVEQVLSRRHGRYPSSKKSYALIAEKNAFKYAFKTYIN 120  
 Qy 121 YTGLADDLTPRGEDQWNSGICKEYRKYKALKRIVPFVRAASGDRTVASEKFLEGOSA 180  
 Db 121 YTGLADDLTPRGEDQWNSGICKEYRKYKALKRIVPFVRAASGDRTVASEKFLEGOSA 180  
 Qy 181 KLAQDGANPQHQAESPVINLPEPEGAGNNLHDHGCTAFFESELGDDVANFTVAFPIR 240  
 Db 181 KLAQDGANPQHQAESPVINLPEPEGAGNNLHDHGCTAFFESELGDDVANFTVAFPIR 240  
 Qy 241 ARLEAHLPGVNLTDEDVNVNLMDCPFDVTARTSDATOLSPFCDFLTHDEWIQYIQLQSLG 300  
 Db 241 ARLEAHLPGVNLTDEDVNVNLMDCPFDVTARTSDATOLSPFCDFLTHDEWIQYIQLQSLG 300  
 Qy 301 KYGGAGGNPLGAQCGVFNELLARLTHSPQDHTSTHLDSPNATPLNATLYADES 360  
 Db 301 KYGGAGGNPLGAQCGVFNELLARLTHSPQDHTSTHLDSPNATPLNATLYADES 360  
 Qy 361 HDMTMSIFFALGLYNGTKPLSTSIEETDGYASWTVPAARAYEMOCAEK 420  
 Db 361 HDMTMSIFFALGLYNGTKPLSTSIEETDGYASWTVPAARAYEMOCAEK 420  
 Qy 421 LVRVLVNDRVPLHGCCVDKLGRCKRDRDFVEGLSFARSGGNWECFA 467  
 Db 421 LVRVLVNDRVPLHGCCVDKLGRCKRDRDFVEGLSFARSGGNWECFA 467

RESULT 4  
 US-09-343-126C-130

Gencore version 5.1.4-p5-4578  
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OM protein - protein search, using sw model

Run on: March 20, 2003, 08:22:01 ; Search time 0.001 seconds  
 (without alignments)  
 803.206 Million cell updates/sec

Title: us-09-488-265-27

Perfect score: 2321

Sequence: 1 NSHSCDTVPGYQCPEISHLW.....DFVEGLSPARSGGNWAECFA 437

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 4 seqs, 1838 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : ramirez126.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2321	(100.0)	437	1 US-09-488-265-27	Sequence 130, APP
2	2115	91.1	467	1 US-09-433-126C-129	Sequence 129, APP
3	2093	90.2	467	1 US-09-343-126C-134	Sequence 134, APP
4	2044	88.1	467	1 US-09-343-126C-132	Sequence 132, APP

#### ALIGNMENTS

RESULT 1

US-09-343-126C-130

; Sequence 130, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wyss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C38435/109741

; CURRENT APPLICATION NUMBER: US/09-343-126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 129

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

RESULT 2

US-09-343-126C-129

; Sequence 129, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wyss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C38435/109741

; CURRENT APPLICATION NUMBER: US/09-343-126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 129

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

Query Match

91.1%; Score 2115; DB 1; Length 467;

best Local Similarity 93.5%; Pred. No: 0;

Matches 419; Conservative 2; Mismatches

9; Indels 18; Gaps 10;

Length 437;

TYPE: PRT

ORGANISM: Consensus sequence

US-09-343-126C-129

; Sequence 129, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wyss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C38435/109741

; CURRENT APPLICATION NUMBER: US/09-343-126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 130

; LENGTH: 437

; TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-130

Query Match

100.0%; Score 2321; DB 1; Length 437;

best Local Similarity 100.0%; Pred. 1;

Matches 437; Conservative 0; Mismatches 0;

Indels 0; Gaps 0;

Length 437;

TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-130

Query Match

100.0%; Score 2321; DB 1; Length 437;

best Local Similarity 100.0%; Pred. 1;

Matches 437; Conservative 0; Mismatches 0;

Indels 0; Gaps 0;

Length 437;

TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-130

RESULT 3

US-09-343-126C-129

; Sequence 129, Application US/09343126C

; GENERAL INFORMATION:

; APPLICANT: Brugger, Roland

; APPLICANT: Lehmann, Martin

; APPLICANT: Wyss, Markus

; TITLE OF INVENTION: Phytase Formulations

; FILE REFERENCE: C38435/109741

; CURRENT APPLICATION NUMBER: US/09-343-126C

; CURRENT FILING DATE: 1999-06-29

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 129

; LENGTH: 467

; TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

Query Match

91.1%; Score 2115; DB 1; Length 467;

best Local Similarity 93.5%; Pred. 0;

Matches 419; Conservative 2; Mismatches

9; Indels 18; Gaps 10;

Length 437;

TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

Query Match

91.1%; Score 2115; DB 1; Length 467;

best Local Similarity 93.5%; Pred. 0;

Matches 419; Conservative 2; Mismatches

9; Indels 18; Gaps 10;

Length 437;

TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

Query Match

91.1%; Score 2115; DB 1; Length 467;

best Local Similarity 93.5%; Pred. 0;

Matches 419; Conservative 2; Mismatches

9; Indels 18; Gaps 10;

Length 437;

TYPE: PRT

; ORGANISM: Consensus sequence

; US-09-343-126C-129

QY 1 NSHSCDTVPGYQCPEISHLW.....DFVEGLSPARSGGNWAECFA 437

QY 121 LARNIVPFVRASGSDRVSASEKFLFEGFOSAKLADPAHASPVNIVPEGSYNNTRH 180

Db 121 LARNIVPFVRASGSDRVSASEKFLFEGFOSAKLADPAHASPVNIVPEGSYNNTRH 180

Db 181 GLCTAREDSTIGDDAEANFTAVFPIRLEA-LPGVNLTDEDVNLMDMCP 240

</div

RESULT 3 ; Sequence 132, Application US/09343126C

US-09-343-126C-134 ; GENERAL INFORMATION:

Sequence 134, Application US/09343126C ; APPLICANT: Brugger, Roland

GENERAL INFORMATION: ; APPLICANT: Lehmann, Martin

APPLICANT: Lehmann, Martin ; APPLICANT: Wyss, Markus

APPLICANT: Wyss, Markus ; TITLE OF INVENTION: Phytase Formulations

FILE REFERENCE: C38435/109741 ; CURRENT APPLICATION NUMBER: US/09/343,126C

CURRENT FILING DATE: 1999-06-29 ; NUMBER OF SEQ ID NOS: 139

SOFTWARE: PatentIn version 3.1 ; SOFTWARE: PatentIn version 3.1

SEQ ID NO 132 ; SEQ ID NO 132

LENGTH: 467 ; LENGTH: 467

TYPE: PRT ; TYPE: PRT

ORGANISM: consensus sequence ; ORGANISM: consensus sequence

US-09-343-126C-132 ; Query Match

Query Match 88.1%; Score 2044; DB 1; Length 467; Best Local Similarity 90.4%; Pred. No. 0; Matches 405; Conservative 7; Mismatches 18; Indels 18; Gaps 10;

Best Local Similarity 90.4%; Pred. No. 0; Matches 414; Conservative 4; Mismatches 12; Indels 18; Gaps 10;

Query Match 90.2%; Score 2093; DB 1; Length 467; Best Local Similarity 92.4%; Pred. No. 0; Matches 414; Conservative 4; Mismatches 12; Indels 18; Gaps 10;

QY 1 NSHSCTDVTG-GYQC-PEISSLHQYQSPFFSLADESATSPDVPGKGCRYTFVQVLRSRGARY 58 ; QY 1 NSHSCTDVTG-GYQC-PEISSLHQYQSPFFSLADESATSPDVPGKGCRYTFVQVLRSRGARY 58

Db 27 NSHSCTDVTGG-YQCPEISSLHQYQSPFFSLADESATSPDVPGKGCRYTFVQVLRSRGARY 86 ; Db 27 NSHSCTDVTGG-YQCPEISSLHQYQSPFFSLADESATSPDVPGKGCRYTFVQVLRSRGARY 86

QY 59 PISSSKKYSALLERIKNAT-FKGKAFLKTYNTLGAADDLTPFGENOMVNSGIKYRR 117 ; QY 59 PISSSKKYSALLERIKNAT-FKGKAFLKTYNTLGAADDLTPFGENOMVNSGIKYRR 117

Db 87 PTSSASKAYSALLEIAOKNATAFKGKAFLKTYNTLGAADDLTPFGENOMVNSGIKYRR 146 ; Db 87 PTSSASKAYSALLEIAOKNATAFKGKAFLKTYNTLGAADDLTPFGENOMVNSGIKYRR 146

QY 118 YKALARNTIVPFVFRASGSDRVIASAKIEFEGFOSAKLADPA--HQASPVINVITPEGSGY 174 ; QY 118 YKALARNTIVPFVFRASGSDRVIASAKIEFEGFOSAKLADPGSOPHQAESPVINITPEGSGY 206

Db 147 YKALARNTIVPFVFRASGSDRVIASAKIEFEGFOSAKLADPGSOPHQAESPVINITPEGSGY 206 ; Db 147 YKALARNTIVPFVFRASGSDRVIASAKIEFEGFOSAKLADPGSOPHQAESPVINITPEGSGY 206

QY 175 NNTLDHGICTAFTAENSTLGDAEANFTAVFAPPTRARLE-LPGVNLDIDEVNLMDMCPF 233 ; QY 175 NNTLDHGICTAFTAENSTLGDAEANFTAVFAPPTRARLE-LPGVNLDIDEVNLMDMCPF 233

Db 207 NNNTLDHGICTAFTAEDFESLGDDVEANFTALFAPATRARLEADPGVLTDEDVYLMDMCPF 266 ; Db 207 NNNTLDHGICTAFTAEDFESLGDDVEANFTALFAPATRARLEADPGVLTDEDVYLMDMCPF 266

QY 234 DTWARTSDATOLSPFCDFLTADEN-QDYQLQL-KYYGAGNPLGPAGQVGFI-NELTAR 290 ; QY 234 DTWARTSDATOLSPFCDFLTADEN-QDYQLQL-KYYGAGNPLGPAGQVGFI-NELTAR 290

Db 291 LTHSPVQDHTSTNHTLDSNPATPFLNATLYADFSHDNTMSIFFALGLYNGTKPLSTS 350 ; Db 291 LTHSPVQDHTSTNHTLDSNPATPFLNATLYADFSHDNTMSIFFALGLYNGTKPLSTS 350

Db 327 LTHSPVQDHTSTNHTLDSNPATPFLNATLYADFSHDNTMSIFFALGLYNGTKPLSTS 386 ; Db 327 LTHSPVQDHTSTNHTLDSNPATPFLNATLYADFSHDNTMSIFFALGLYNGTKPLSTS 386

QY 351 ESI-ETDGYAASWTVFARAYVEMOCAGGGGEGKEPLRFLVLUWRVPLHGCCVD 409 ; QY 351 ESI-ETDGYAASWTVFARAYVEMOCAGGGGEGKEPLRFLVLUWRVPLHGCCVD 409

Db 387 ESTETDGYSASWTVFARAYVEMOCQA-----EKEPVLVLUWRVPLHGCCVD 439 ; Db 387 ESTETDGYSASWTVFARAYVEMOCQA-----EKEPVLVLUWRVPLHGCCVD 439

QY 410 KLGRCRKDDFVEGLSFARSGGNWAECEA 437 ; QY 410 KLGRCRKDDFVEGLSFARSGGNWAECEA 437

Db 440 KLGRCRKDDFVEGLSFARSGGNWAECEA 467 ; Db 440 KLGRCRKDDFVEGLSFARSGGNWAECEA 467

Search completed: March 20, 2003, 08:22:01  
Job time : 0.001 secs



RESULT 3  
US-09-343-126C-129  
Sequence 129, Application US/09343126C  
; GENERAL INFORMATION:  
; APPLICANT: Brugger, Roland  
; APPLICANT: Lehmann, Martin  
; APPLICANT: Wyss, Markus  
; TITLE OF INVENTION: Phytase Formulations  
; FILE REFERENCE: C38A35/109741  
; CURRENT APPLICATION NUMBER: US/09/343, 126C  
; CURRENT FILING DATE: 1999-06-29  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 129  
; LENGTH: 467  
; TYPE: PRT  
; ORGANISM: Consensus sequence  
; US-09-343-126C-129

Query Match 95.1%; Score 2342; DB 1; Length 467;  
Best Local Similarity 94.4%; Pred. No. 0; Mismatches 10; Indels 18; Gaps 0;  
Matches 441; Conservative 10; Mismatches 16; Indels 0; Gaps 0;

QY 1 MGVFVVLISATLFGSTSGTALGRGNHSSCPVDGQYQCEPEISHLWGTSPYSLADE 60  
Db 1 MGVFVVLISATLFGSTSGTALGRGNHSSCPVDGQYQCEPEISHLWGTSPYSLADE 60

QY 61 SAISPDVDPDCRVTQVLSRHRGARYPTSSASKAYSALIEIAOKNATAFKGYAFKTYN 120  
Db 61 SAISPDVDPKGRTVQVLSRHRGARYPTSSASKYSALIEIAOKNATAFKGYAFKLYN 120

QY 121 YTGADDLTPGENQMVNSGTFKRYKALRKVPIFRASDRVIASEAKFIEGGQSA 180  
Db 121 YTGADDLTPGEQQMVNSGTFKRYKALRKVPIFRASDRVIASEAKFIEGGQSA 180

QY 181 KIADPGSQPHQASPVINVILPEGAGNNLTDHGLCTAEESELDDVEANFTAVFPIR 240  
Db 181 KIADPGQPHQASPVINVILPEGAGNNLTDHGLCTAEESELDDVEANFTAVFPIR 240

QY 241 ARLEADIPGVTJEDDVYVLMCPFDVTARTSDATELSPCALETHDWTQDYLSIG 300  
Db 241 ARLEAHIPGVNLJEDDVYVLMCPFDVTARTSDATELSPCALETHDWTQDYLSIG 300

QY 301 KYGYGAGNPLGAQGVGFNELLARLTHSPVQDHTSTNHTLDSPNAPFLNATIYADS 360  
Db 301 KYGYGAGNPLGAQGVGFNELLARLTHSPVQDHTSTNHTLDSPNAPFLNATIYADS 360

QY 361 HDNMISIFFALGlyNGTKPLSTISVETDGSASWTVPPAARAYEMMOQAECFP 420  
Db 361 HDNMISIFFALGlyNGTKPLSTISVETDGSASWTVPPAARAYEMMOQAECFP 420

QY 421 LVRVLVNDRVPLHGCAVDKGRCKRDFVEGLSFARSQGNWAECPA 467  
Db 421 LVRVLVNDRVPLHGCAVDKGRCKRDFVEGLSFARSQGNWAECPA 467

RESULT 4  
US-09-343-126C-130

Query Match 83.0%; Score 2044; DB 1; Length 437;  
Best Local Similarity 90.4%; Pred. No. 0; Mismatches 7; Indels 18; Gaps 10;  
Matches 405; Conservative 7; Mismatches 18; Indels 18; Gaps 10;

QY 27 NSHSCDTWGGYQCFBISHLWGTSPYFLADESAISPDVPPDCRVTQVLSRHRGARY 86  
Db 1 NSHSCDTWGGYQCFBISHLWGTSPYFLADESAISPDVPPDCRVTQVLSRHRGARY 86

QY 87 PTSSASKAYSALIEIAOKNATAFKGYAFKTYNTLGADDLTPFGENOMVNSGIKTYR 146  
Db 59 PTSSASKYSALIEROKNAT-FKGKYAFLKTYNTLGADDLTPFGENOMVNSGIKTYR 117

QY 147 YKALARKVPIFRASDRVIASEAKFIEGGQSAKLADPESOPHOASPVINVLPESGGY 206  
Db 118 YKALARKVPIFRASDRVIASEAKFIEGGQSAKLADP---HOASPVINVLPESGGY 174

QY 207 NNTLHDHGCTAFADESELDDVRAENTALPAIRALEADLPGVLTDDVVYLMDCPF 266  
Db 175 NNTLHDHGCTAFADESELDDVRAENTALPAIRALEA-LPGVNLTDEDVVYLMDCPF 233

QY 267 DTWARTSATELSPFCALFTHDWIOYDYLQSLGKYYGAGNPLGAQGVGFNELLAR 326  
Db 234 DTWARTSATOLSPFCDFLFTADEW-QDYLQL-KYGYGAGNPLGAQGVGF-NELLAR 290

QY 327 LTHSPVQDHTSTNHTLDSPNAPFLNATIYADS 386

Db 291 LTHSPVQDHTSTNHTLDSPNAPFLNATIYADS 350

QY 387 ESEIEDGDSASWTVPPAARAYEMMOQA-----EKEPLRVLDNRVPLHGCAV 439  
Db 351 ESI-ETDGDSASWTVPPAARAYEMMOQAEGGGGEGEKEPLRVLDNRVPLHGCAV 409

QY 440 KLGCRKDDVEGLSFARSQGNWAECPA 467  
Db 410 KLGCRKDDVEGLSFARSQGNWAECPA 437

Search completed: March 20, 2003, 08:23:06  
Job time : 0.001 secs



241 ARLEAHLPGVNLTDDEVNLMMDCPFDTVARTSDATOLSPFCDFLTHDEWIMQDYLQSLG 300  
; Sequence 130, Application US/093443126C  
; GENERAL INFORMATION:  
; APPLICANT: Brugger, Roland  
; APPLICANT: Wyss, Markus  
; TITLE OF INVENTION: Phytase Formulations  
; FILE REFERENCE: C38435/109741  
; CURRENT APPLICATION NUMBER: US/09/343,126C  
; CURRENT FILING DATE: 1999-06-29  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 130  
; LENGTH: 437  
; TYPE: PRT  
; ORGANISM: consensus sequence  
; US-09-343-126C-130  
; Query Match 84.8%; Score 2093; DB 1; Length 437;  
; Best Local Similarity 92.4%; Pred. No. 0;  
; Matches 414; Conservative 4; Mismatches 12; Indels 18; Gaps 10;  
; Matches 446; Conservative 8; Mismatches 13; Indels 0; Gaps 0;  
; QY 1 MGIVFVVLISIATIPLGSTSCTALGRGNHNSCDTVDGGYQCFPEISHLWMTYSPFFSLADE 60  
; Db 1 MGIVFVVLISIATIPLGSTSCTALGRGNHNSCDTVDGGYQCFPEISHLWMTYSPFFSLADE 60  
; QY 61 SAISDPDVPGCRVTFVOSVRHARGARYPTSSASKASALTEAIKONATAFKGYAFLKTIN 120  
; Db 61 SAISDPDVPGCRVTFVOSVRHARGARYPTSSASKASALTEAIKONATAFKGYAFLKTIN 120  
; QY 121 YTLAGDLTPFGEOQMNGKIFYRYKALARKEVPLFTRASGSDRVIAASREKFTIEGFOSA 180  
; Db 121 YTLAGDLTPFGENOMVNSIGKIFYRYKALARKEVPLFTRASGSDRVIAASREKFTIEGFOSA 180  
; QY 181 KLAQPCANPHOASPVINLVIPEGAGYNNLTDHGICTAFFEESEGDDEVENFTAFAPIR 240  
; Db 181 KLAQPCANPHOASPVINLVIPEGAGYNNLTDHGICTAFFEESEGDDEVENFTAFAPIR 240  
; QY 241 ARLEAHLPGVNLTDDEVNLMMDCPFDTVARTSDATOLSPFCDFLTHDEWIMQDYLQSLG 300  
; Db 241 ARLEAHLPGVNLTDDEVNLMMDCPFDTVARTSDATOLSPFCDFLTHDEWIMQDYLQSLG 300  
; QY 301 KYGGAGNPLGPAGQGVFNELLARLTHSPQDHNSTHLDSPNATEPLNATLYADFS 360  
; Db 301 KYGGAGNPLGPAGQGVFNELLARLTHSPQDHNSTHLDSPNATEPLNATLYADFS 360  
; QY 361 HDNTMISIFFALGLYNGTKPLSTSVESTEDGYSASWTVFAARAYVEMOCAREKEP 420  
; Db 361 HDNTMISIFFALGLYNGTKPLSTSVESTEDGYSASWTVFAARAYVEMOCAREKEP 420  
; QY 421 LVRVLVNDRVVPLHGCCVDKGRCKRDDFVEGLSFARSGNWEECEA 467  
; Db 421 LVRVLVNDRVVPLHGCCVDKGRCKRDDFVEGLSFARSGNWEECEA 467

Search completed: March 20, 2003, 08:24:16  
Job time : 1 secs